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OSA 3962-63
Copy 2 of 5

23 July 1963

NRO REVIEW COMPLETED

MEMORANDUM FOR: Deputy for Technology, OSA
SUBJECT: Trip Report, E. K. R. &D. Contract

1. The first CCB meeting concerning the E. K. R. &D. Contract was held at Rochester on 9 July 1963.

2. All CCB members were present:

[Redacted] (Chairman)

3. The attached E. K. document was used as the basis of discussion. It was decided that messages and references will use the Proposed Approval Request (PAR) Number as a means of identifying line items.

4. The philosophy of this R. &D. effort in relation to actual hardware production was explained to E. K. Generally, the new R. &D. Contract E. B. 1492 will be used for studies, techniques and fabrication through breadboard only. Prototype or production items of equipment will be funded separately and could be administered under this contract, a new contract, or E. G. 400.

5. Basically, the entire proposal was approved in principle with the following exceptions:

a. PAR 23 - Processing Improvement. This item was vague but desirable, therefore a tentative go ahead was given for three months at a [Redacted] level of effort.

b. PAR 28 - Modular Processor. Approved for study only at this time. Huston - Fearless is just delivering the

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AUTH: HB 10-2
DATE: 1961 REVIEWER: _____

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25X1

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HTA-5 Processor to March A. F. B. This is a modular processor compared to the E. K. item which is really a variable purpose modular processor. The E. K. proposal envisions adding component modules to change the processor from negative to reversal or even color. A significant amount of money is involved, so this item will be reviewed in phases of development.

c. PAR 16 - Frame-by-Frame Processor. This item was approved through breadboard and test of a model to handle 9 1/2" wide material. We witnessed a demonstration of the 70mm breadboard and the technique shows very great potential. Production funds will be used for the majority of future efforts.

d. PAR 4 - Automatic Exposure Control Printer. This item seemed very close to the Logetronics Printer and E. K. admitted they needed to do more homework on this item. It was deferred for the present time.

e. PAR 33 - Model III Titler. This item was approved and a new requirement stated for study of a distortionless inking or stamping technique to be added when available. Current techniques emboss the negative under pressure and frequently interfere with fiducials or shrinkage markers on the film. The basic Model III is still needed and it is expected that the new technique (when found) could be interchangeable with the stamping head under design.

f. PAR 24 - Red Dot Tests. The basic film tests are approved in principle, but funding limited to [] for the first quarter of FY-64. As the project progresses we will approve additional funds. I pointed out to [] that it might be possible to use the "O" pilot training tracker camera for several tests of direct benefit to Red Dot. I also pointed out to [] who is monitoring Red Dot as well as being a regular E. K. member of CORONA SETD meetings, that the "C" Camera in the "I" Vehicle is an excellent opportunity to test color films for lens compatability for possible satellite use.

NRO
25X1

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6. [] is to prepare a "project directive" for Contract E. B. 1492 and coordinate this with [] and me. This is to be accomplished and contracted through [] by 1 August.

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Attachments: 1. E. K. Proposal
2. E. K. Minutes, dated 12 July 1963

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DD/OSA/[] (24 July 1963)

Distribution:

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1 - D/TECH/OSA

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OSA - 3949-63

12 July 1963

To: Members of CCB Contract EB-1492

From:

In an effort to minimize reporting effort on the part of all concerned, I have prepared, for your consideration, Minutes of the Meeting on 9 July 1963. To the best of our recollection, these include our understanding of all items of a decision or recommendation nature made during the meeting.

It would be greatly appreciated if you could find time to review these Minutes and to recommend to the Contracting Officer that he authorize the work discussed therein, with such modifications as you consider necessary.

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12 July 1963

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To: [redacted] ACO

From: [redacted]

Re: CCB Meeting 9 July 1963 on Contract EB-1492

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At a meeting with the CCB [redacted] on 9 July 1963, certain tentative agreements were reached concerning Contract EB-1492 which is now superseding Contracts RD-X-63 and -7713.

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The word "tentative" is used in that all such agreements relating to expenditures must be confirmed by the Contracting Officer. To assist in presenting this information to the Contracting Officer, we have prepared the attached "Minutes of the Meeting". We have forwarded directly to each member of the CCB a copy of these minutes and request that you provide the Contracting Officer with copies also. We are asking the CCB to forward direct to the Contracting Officer their comments on or disagreements with these Minutes.

Upon receipt of the approval of the Contracting Officer, we will proceed to take the actions indicated on each PAR.

STAT

[redacted]
Encl.

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Minutes of CCB Meeting
Contract EB-1492
9 July 1963

Several general comments are in order, which to simplify the reporting, will be gathered here rather than being repeated as pertinent.

1. Regardless of success of any individual effort, a final report is to be issued on each PAR summarizing the actions taken, with results, costs, conclusions and recommendations.
2. Where the PAR results in an item of breadboard hardware which has application as an accessory or auxiliary to existing equipment, recommendations shall be made to the CCB concerning the desirability of incorporating the device, in a finished state, on other similar items of equipment wherever they may be located. Such recommendations shall also include estimates of the redesign cost and of fabrication and installation (if required) of the quantities recommended.
3. Present practice of initiation of non-significant Projects may be followed but particular care should be taken not to initiate any project (except for sufficient study to permit submission of a proposal) without CCB approval, if the total cost is anticipated to exceed [redacted] NRO 25X1
4. Also, in the above connection, there should be no pyramiding of non-significant projects of a related or sequential nature in order to keep the cost per project below [redacted] and hence not subject to CCB prior approval.
5. Appropriate steps must be taken to investigate the potentials of color, but it must be recognized that there are many technical, psychological and perhaps political barriers to be overcome.

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-2-

The following items are discussed in the order in which they were presented in the Agenda (with the exception of the Frame by Frame processor which, because of its importance, was placed first on the Agenda).

PAR 22 Trenton Recording and Warning Device - Continue as planned.

10 Automation of IR Densitometer - Continue as planned.

23 Processing Improvement - Particular attention should be paid to the avoidance of inclusion in the PAR of any work which might more logically be charged to "Technical Assistance" or other aspects of P.O. 1800. In general, this PAR is to be devoted to the development of processes, techniques or methods for the future or to improve on existing ones. Suggestions by the CCB of subjects considered appropriate were the investigation of the possibility of magnetic stripping of raw negative film, the possibility of correlating in flight temperature with some characteristic of the flight film, determination of dimensional stability of film processed by the Frame by Frame processor and further investigation into the possible advantages in multi-step processing.

A listing of those investigations made under "Processing Improvement" and under P.O. 1800 is to be kept for 3 months. At that time, the lists will be reviewed to determine if a proper philosophy on the division of effort can be established.

NRO
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An outside expenditure limit of [] for the first quarter FY64 was agreed to. A detailed report of the activity under this project is to be submitted each quarter.

PAR 37 Versamat Process for 8402 and 5427 - This is a borderline case as discussed under PAR 23 above. Logically, work of this nature would appear to fall under P.O. 1800 in the future. It is borderline in the sense that it presents an unorthodox solution, resulting in a considerable logistic saving for field users,

PAR 16 Frame by Frame Processor - As indicated by its prominent place in the Agenda, this project was discussed in considerable detail. It was pointed out that much of the anticipated total expenditure of [] is for items of an equipment nature which are not chargeable to this contract without change in scope and which, perhaps, would be better off in a contract of the nature of EG-400. The CCB is to provide a recommendation concerning this project on or before 1 August.

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Since similar equipment will be required elsewhere, Eastman Kodak is to furnish as soon as possible the optimum timing and probable cost of these additional parts.

-3-

- PAR 40 Grafton Conversion - CCB agreed to recommend authorization.
- 41 Speltron Conversion - CCB agreed to recommend authorization.
- 28 Modular Processor - Phase I, the Study Phase, estimated to cost [] was approved. Phase II is to be broken into two phases "Design" and "Build" and resubmitted when appropriate during the study phase.
- 6 400 Mercury Arc Source - The work is complete. A report is to be submitted. In connection with the study of light sources, liaison with SPPL is to be established.
- 5 Scanning and Recording Densitometer - Continue as planned.
- 9 Frame Detector and Counter - Continue as planned.
- 20 Printer Air Rollers - Continue as planned.
- 13 Frame by Frame Printer - Continue as planned.
- 17 Bidirectional Printer - Continue as planned.
- 18 Color Printer - CCB comment on EK recommendation to continue was not recorded. Request direction by Contracting Officer.
- 36 1000W Light Source - Continue as planned. Liaison with SPPL on all light sources.
- 39 Light Source Test Fixture - Continue as planned.
- 2 3.6X Reduction Lens Design - Complete evaluation and report. Submit request for authorization to proceed beyond this point if deemed advisable.
- 11 Unsharp Mask Tests - EK to insure that no conflict or duplication exists with OSR 405 (ES-39). Reference to status of latter is to be included in future reports.
- 4 Automatic Exposure Control Printer - Activity on this project is to be suspended until need for approach is demonstrated. Summarizing report is to be prepared and submitted.
- 33 Model III Titler - CCB agreed to recommend authorization.
- 8 Frame Coding and Detecting - Continue as planned.
- 7 Comm'l Components and Materials - While an item of minimum expenditure, CCB warns against utilizing for work properly chargeable to P.O. 1800.

NRO
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-4-

- PAR 24 Red Dot Tests - CCB agreed to recommend authorization of the project with the provisos that EK make themselves familiar with work being done by others, the various facilities available, etc. in order to avoid duplication. Arrangements to obtain such information are to be made thru [redacted]. A further proviso was made that EK must provide documentation and reports in detail of all work done under this project. Expenditures are limited to [redacted] for the first quarter of FY64.
- 26 Radiation Effects - Continue as planned. Note successful completion of this project necessitates approval of PAR 40 above.
25. Image Analysis - Continue as planned to investigate techniques. This project does not cover mission analysis as such.
- 19 Exposure Control Criteria - Continue as planned.
- 32 Ultrasonic Splicing - Continue as planned.
- 31 Ultrasonic Cleaning - Continue as planned.
- 1 10-20-40 - Roll Holder - Continue as planned. However, this type of investigation does not belong in this contract (EB-1492).
- 14 Modify Micro D Mod 5 - Continue as planned.
- 12 Redesign and Build MTR Camera - CCB comment on EK recommendation to continue was not recorded. Request direction by Contracting Officer.
- 3 20X Color Lens - Complete evaluation and report. Submit request for authorization to proceed beyond this point if deemed advisable.
- 38 9 $\frac{1}{2}$ Inch to 70mm Slitter - CCB directed that this be re-examined with the view of making a more versatile instrument for field use. Resubmit proposal if required under terms of contract.

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